

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) An illumination device, comprising:

a light-emitting tube having a light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes;

a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward;

a transparent plate formed at the distal end portion of the first reflecting mirror;

a second reflecting mirror that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, the second reflecting mirror being fixedly attached to at least one of the sealing member and the transparent plate,

the transparent plate and the second reflecting mirror being brought into contact or mounted in a fixedly attached condition, and at least one of the transparent plate and the second reflecting mirror being brought into contact or fixedly attached to the sealing member.
2. (Previously Presented) The illumination device according to claim 1, the fixed attachment being carried out with an adhesive.
3. (Previously Presented) The illumination device according to claim 2, the adhesive being an aluminum nitride-based adhesive or an adhesive based on a mixture of silica and alumina.

4. (Previously Presented) The illumination device according to claim 1, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

5. (Previously Presented) The illumination device according to claim 1, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

6. (Previously Presented) The illumination device according to claim 1, a heat radiation fin being provided at the outer peripheral portion of the transparent plate.

7. (Previously Presented) The illumination device according to claim 1, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

8. (Previously Presented) An illumination device, comprising:
a light-emitting tube having a light-emitting member and sealing members located on both sides of the light-emitting member, the light-emitting member including a pair of electrodes, light emission is carried out between a pair of electrodes;

a first reflecting mirror to hold the light-emitting tube, and reflect the light emitted from the light-emitting tube, and direct the light forward;

a transparent plate disposed in the distal end portion of the first reflecting mirror;

a second reflecting mirror that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, the second reflecting mirror being fixedly attached to the transparent plate; and

a gap being provided between the transparent plate, the second reflecting mirror, and the light-emitting tube.

9. (Previously Presented) The illumination device according to claim 8, the fixed attachment being carried out with an adhesive.

10. (Previously Presented) The illumination device according to claim 8, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

11. (Previously Presented) The illumination device according to claim 8, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

12. (Previously Presented) The illumination device according to claim 8, a heat radiation fin being provided at an outer peripheral portion of the transparent plate.

13. (Previously Presented) The illumination device according to claim 8, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

14. (Previously Presented) An illumination device, comprising:
a light-emitting tube having a light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes;

a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward;

a transparent plate disposed in the distal end portion of the first reflecting mirror; and

a second reflecting mirror that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, the second reflecting mirror is formed integrally with the transparent plate.

15. (Previously Presented) The illumination device according to claim 14, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

16. (Previously Presented) The illumination device according to claim 14, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

17. (Previously Presented) The illumination device according to claim 14, a heat radiation fin being provided at an outer peripheral portion of the transparent plate.

18. (Previously Presented) The illumination device according to claim 14, one end of the sealing member protruding from a region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

19. (Previously Presented) An illumination device, comprising:

- a light-emitting tube having a light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes;
- a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward;
- a transparent plate disposed in a distal end portion of the first reflecting mirror; and a second reflecting mirror that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, the second reflecting mirror being disposed opposite to an outer peripheral surface of the light-emitting member with a gap being formed therebetween and being fixedly attached by being pressed against an outer periphery of the sealing member in the vicinity of the light-emitting member with a spring wound around the outer peripheral surface with a gap therebetween.

20. (Previously Presented) The illumination device according to claim 19, the spring being composed of an electrically conductive coil and one end of the electrically conductive coil being connected to a lead wire led out from a sealing member on a side opposite to that where the spring is disposed.

21. (Previously Presented) The illumination device according to claim 19, the transparent plate being fixedly attached to the sealing member with an adhesive.

22. (Previously Presented) The illumination device according to claim 19, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

23. (Previously Presented) The illumination device according to claim 19, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

24. (Previously Presented) The illumination device according to claim 21, the adhesive being an aluminum nitride-based adhesive or an adhesive based on a mixture of silica and alumina.

25. (Previously Presented) The illumination device according to claim 19, a heat radiation fin being provided at the outer peripheral portion of the transparent plate.

26. (Previously Presented) The illumination device according to claim 19, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

27. (Previously Presented) A projector, comprising:
an illumination device;
a light modulation device to receive an incident light from the illumination device and modulate the incident light according to a given image information, the illumination device being an illumination device including: a light-emitting tube having a

light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes;

a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward;

a transparent plate disposed in the distal end portion of the first reflecting mirror; and

a second reflecting mirror, that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, being fixedly attached to at least one of the sealing member and the transparent plate,

the transparent plate and the second reflecting mirror being brought into contact or fixedly attached, and at least one of the transparent plate and the second reflecting mirror being brought into contact or fixedly attached to the sealing member.

28. (Previously Presented) The projector according to claim 27, the fixed attachment being carried out with an adhesive.

29. (Previously Presented) The projector according to claim 27, the adhesive being an aluminum nitride-based adhesive or an adhesive based on a mixture of silica and alumina.

30. (Previously Presented) The projector according to claim 27, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

31. (Previously Presented) The projector according to claim 27, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

32. (Previously Presented) The projector according to claim 27, a heat radiation fin being provided at the outer peripheral portion of the transparent plate.

33. (Previously Presented) The projector according to claim 27, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

34. (Previously Presented) A projector, comprising:

- an illumination device;
- a light modulation device to receive an incident light from the illumination device and modulate the incident light according to a given image information;
- the illumination device being an illumination device including:
 - a light-emitting tube having a light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes;
 - a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward;
 - a transparent plate disposed in a distal end portion of the first reflecting mirror;
 - a second reflecting mirror that, encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, being fixedly attached to the transparent plate; and
 - a gap being provided between the transparent plate, the second reflecting mirror, and the light-emitting tube.

35. (Previously Presented) The projector according to claim 34, the fixedly attached attachment being carried out with an adhesive.

36. (Previously Presented) The projector according to claim 34, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

37. (Previously Presented) The projector according to claim 34, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

38. (Previously Presented) The projector according to claim 34, a heat radiation fin being provided at an outer peripheral portion of the transparent plate.

39. (Previously Presented) The projector according to claim 34, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

40. (Currently Amended) A projector, comprising:

- an illumination device;
- a light modulation device to receive an incident light from the illumination device and modulate the incident light according to a given image information;
- the illumination device being an illumination device including:
 - a light-emitting tube having a light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes and sealing members;
 - a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward; and
 - a transparent plate disposed in a distal end portion of the first reflecting mirror;
- and

a second reflecting mirror that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, the second reflecting mirror being formed integrally with the transparent plate.

41. (Previously Presented) The projector according to claim 40, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

42. (Previously Presented) The projector according to claim 40, a substrate of the second reflecting mirror being composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

43. (Previously Presented) The projector according to claim 40, a heat radiation fin being provided at the outer peripheral portion of the transparent plate.

44. (Previously Presented) The projector according to claim 40, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

45. (Previously Presented) A projector, comprising:
an illumination device and a light modulation device to receive an incident light from the illumination device and modulate the incident light according to a given image information, the illumination device including:

a light-emitting tube having a light-emitting member and sealing members located on two sides of the light emitting member, the light emitting member including a pair of electrodes, light emission being carried out between the pair of electrodes;

a first reflecting mirror to hold the light-emitting tube, reflect the light emitted from the light-emitting tube, and direct the light forward;

a transparent plate disposed in a distal end portion of the first reflecting mirror;

a second reflecting mirror that encloses a front portion of the light-emitting member and reflects the light from the light-emitting member toward the first reflecting mirror, the second reflecting mirror being disposed opposite to an outer peripheral surface of the light-emitting member with a gap being formed therebetween and being fixedly attached by being pressed against an outer periphery of the sealing member in the vicinity of the light-emitting member with a spring wound around the outer peripheral surface with a gap therebetween.

46. (Previously Presented) The projector according to claim 45, the spring being composed of an electrically conductive coil and one end of the electrically conductive coil being connected to a lead wire led out from a sealing member on the side opposite to that where the spring is disposed.

47. (Previously Presented) The projector according to claim 45, the transparent plate being fixedly attached to the sealing member with an adhesive.

48. (Previously Presented) The projector according to claim 45, the transparent plate being composed of either a transparent material with a low thermal expansion coefficient or a transparent material with a high thermal conductivity.

49. (Previously Presented) The projector according to claim 45, the second reflecting mirror including a substrate composed of either a material with a low thermal expansion coefficient or a material with a high thermal conductivity.

50. (Previously Presented) The projector according to claim 47, the adhesive being an aluminum nitride-based adhesive or an adhesive based on a mixture of silica and alumina.

51. (Previously Presented) The projector according to claim 45, a heat radiation fin being provided at an outer peripheral portion of the transparent plate.

52. (Previously Presented) The projector according to claim 45, one end of the sealing member protruding from the region surrounded by the first reflecting mirror and the transparent plate through the transparent plate into an open region.

53. (Previously Presented) The illumination device according to claim 9, the adhesive being an aluminum nitride-based adhesive or an adhesive based on a mixture of silica and alumina.

54. (Previously Presented) The projector according to claim 35, the adhesive being an aluminum nitride-based adhesive or an adhesive based on a mixture of silica and alumina.